10.9 : Other Information

Delegation visit to India

Visit of ITMF delegation

Members of the Spinners Committee of International Textile Manufacturers Federation (ITMF) visited CICR, Nagpur on November 16, 2013. The delegates had interactive session with Scientists of CICR, headed by Dr. C. D. Mayee, former Chairman, ASRB, Govt. of India and Dr. K.R. Kranthi, Director, CICR, regarding the various ongoing research activities at CICR. Dr. D. Blaise, Head, Crop Production Division, Dr. Sandhya Kranthi, Head, Crop Protection Division, Dr. Suman Bala Singh, Head I/c, Crop Improvement Division and Dr. S.B. Nandeshwar, Head I/c, Biotechnology Section coordinated the field and lab visits.

ITMF delegation members :

1) Mr. Andrew Macdonald, Chairman, Spinners Committee (Brazil)
2) Mr. Walter Simeoni, Member, Spinners Committee (South Africa)
3) Mr. Enrique Crouse , Member, Spinners Committee (South Africa)
4) Mr. M.N Vijayshankar, Spinners Committee (Malaysia)
5) Mr. M. B. Patodia, Member, Spinners Committee (India)
6) Mr. Bashir Ali Mohammad, Member, Member Spinners Committee (Pakistan) and Former President, ITMF
7) Dr. Christian Schindler, Director General, ITMF (Switzerland)
8) Mr. Jose Sette, Incoming Executive Director, ICAC (USA)
9) Mr. Mahesh C.Thakker, Special Invitee (India)

Visit of Delegates from African Countries

A team comprising of 30 international delegates from African Countries *viz.*, Kenya, Liberia and Malawi visited CICR Regional Station, Coimbatore on 16th November, 2013. They visited the station as a part of their exposure visit under 'US- India- Africa Triangular International Training Programme on new dimensions in Agricultural Extension Management' for Extension functionaries, organised by MANAGE. Dr. A.H. Prakash (Project Coordinator & Head), Dr S. Manickam and Dr K. Sankaranarayanan delivered talks about cotton status, breeding programmes and production aspects. Dr. Prakash, during his welcome address briefed the activities of the Regional Station, AICCIP and Cotton Scenario in India. Dr. S. Manickam, Principal Scientist (Plant Breeding) exposed the delegates about the varieties and hybrids released by CICR. Dr. K. Sankaranarayanan, Principal Scientist (Agronomy) made a presentation on Cotton Production Technologies (multi-tier cropping system, cotton-sorghum rotation, low cost drip system, *in-situ* grown ragi for monocropping of cotton, high density planting system and poly mulch). During the interactive session, the delegates discussed about its viability under African Condition.

National Agricultural Exposition- KRISHI VASANT 2014

Krishi Vasant -2014, the country's biggest ever Agricultural Exposition was organized at Central Institute for Cotton Research, Nagpur to celebrate farmers' great contribution to our economy from 9-13 February 2014 by the joint efforts of Govt. of India and Govt. of Maharashtra with Confederation of Indian Industry (CII) as the strategic partner. The event also marked the centenary celebrations of Late Shri. Vasant Rao Naik, Ex. Chief Minister of Maharashtra who played a major role in agricultural reforms in Maharashtra during the green revolution era. Honourable President of India, Shri. Pranab Mukherjee inaugurated the Krishi Vasant on 9th February, 2014. In his inaugural address, the President lauded the new dimension and new direction provided to Indian farming in the last ten years, which has seen the country achieving food security and becoming a top exporter of food grains. Mr. Sharad Pawar, Minister of Agriculture and Food Processing Industries, Government of India; Dr. S. Ayyappan, Secretary (DARE) & Director General (ICAR), Mr. K Sankaranarayanan, Governor, Maharashtra, Mr. Prithviraj Chavan, Chief Minister, Maharashtra; Mr. Ashish Bahuguna, Secretary, DAC; Mr. Anil Deshmukh, Minister of Food, Civil Supplies and Consumer Protection, Government of Maharashtra; Mr. Ajit Pawar,

Deputy Chief Minister, Maharashtra; Mr. Praful Patel, Minister of Heavy Industries & Public Enterprises, Government of India; Mr. Radhakrishna Vikhe Patil, Minister of Agriculture and Marketing, Government of Maharashtra; Mr. Shivajirao Moghe, Guardian Minister of Nagpur; Mr. S. Gopalakrishnan, President, CII were present at the inaugural function. Dr. S. Ayyapan, Secretary (DARE) and Director General (ICAR) proposed the vote of thanks.

Live crop demonstrations encompassing 321 varieties of 56 crops on 10 ha area were put up, an event of unprecedented proportions, at CICR, Nagpur. These included vegetable, fodder, fiber, oilseed, cereal as well as horticultural crops. Farmers were enthusiastic to visit these live crop demonstrations which were based on the novel way of cultivation used by progressive farmers. The theme pavilion was the biggest attraction of the exhibition in which the beautiful installations have been created representing the variety of farming in India. The exhibition not only gave the theoretical information about farming but also provided practical knowledge. Around 78 ICAR institutes/universities along with 8 zonal project directorates, state departments of various states and private companies from the country exhibited their innovative findings for the benefit of the farmers. The open areas dedicated to additional income sources like


CICR Stall

poultry and animal husbandry also evoked very enthusiastic response from farmers. The open display-cum-demonstration of high end machinery was the special attraction for farmers. Farmers' technology schools were organised by CICR under the guidance of Dr. K. R. Kranthi, Director, CICR, to educate and train the farmers in various aspects of farming and around 20,000 farmers had been trained during the event. CICR had put up 5 stalls (3 on behalf of the institute, 2 on behalf of the Ministry of Agriculture) for exhibiting the technologies of the institute. Theme specific conferences, cultural events, skit shows, quiz shows and kisan ghoshthies were part of the event. Farmer- scientist interactions on


Live cotton demonstration

various themes / subjects related to agriculture were also conducted during 5 days period by inviting specialists from ICAR institutes, SAU's and their doubts were cleared by the scientists. Farmers were given direct access to latest technologies. Success stories of farmers were highlighted during the Krishi Vasant to encourage the farmers to adopt the latest innovative technologies. More than eight lakh people visited the event from various parts of the country which included seven lakh and eighty four thousand registered farmers. An Award Ceremony was organised on the concluding day of the event.

The institute received an appreciation letter from Mr. Ashish Bahuguna, Secretary, DAC, Ministry of Agriculture, Government of India for successful organization of the event.

Kapus Melawa

'Kapus melawa' was organized by CICR on 11 December 2013 in which more than 700 cotton farmers from Jalgaon District, Maharashtra participated. The farmers' visit was coordinated by "Manish Dada Jain Foundation" Jalgaon District, Maharashtra. The scientists of CICR delivered lectures on various aspects of cotton cultivation. Dr. C. D. Mayee was the guest of honour and the event was coordinated by Dr. Sandhya Kranthi, Head, Crop protection & I/c Director.

Kshetriya Kisan Goshthi

Dr. A. R. Raju and Dr. V. S. Nagrare participated in '*Kshetriya Kisan Goshthi'* on September 27, 2013 at Jam, Samudrapur Taluk of Wardha District. *Kshetriya Kisan Goshthi* was organized under ATMA by Agriculture department, Government of Maharashtra. The CICR scientists interacted with the farmers and answered their queries on cotton production and protection aspects. Other invited experts discussed about cultivation of *Rabi* crops. About 100 farmers participated in the event.

Library

Additions

Forty two new books were purchased for the library during 2013-2014.

Documentation services

- Computerized bibliographic database on Cotton was developed in the library to provide comprehensive and updated information on cotton. About 4463 references along with abstracts have been stored in it. Based on this bibliographic database, the library publishes a current awareness bulletin namely "*COTTON RESEARCH ABSTRACTS*". The Bulletin is circulated to all the scientists of the Institute and to all AICCIP Centers in India. In the reported period, four issues of *COTTON RESEARCH ABSTRACTS (V27, (No. 1-4), January – December 2013)* were published and circulated.
- The Library is actively participating in the E-Journal Consortium by responding regularly through E-mails and thus also receiving updates. More than 2000 on-line journals on agriculture and crop sciences are made available over the network through this consortium.
- Four User Terminals installed in the Library have facilitated the library users to access the databases uploaded in the Library Server. Users can also access the Internet on these terminals. Similarly the entire catalog of the library has been downloaded on these terminals for ease of use.
- The Web OPAC version of the Library software SLIM21 was updated and by using this Library Application Software, the entire catalogue of holdings of the Library (books and bound volumes) is available on all terminals within the Institute. By its virtue, the entire holdings and the catalogue of the Library are visible on the LAN terminals within the Institute by clicking on the following link. Library Catalogue Web-OPAC Link http://dbserver/w27/

Progressive Use of Hindi

Nagpur

Hindi Week

Implementation of official language Hindi was taken on prime and priority basis. For this purpose, an Institute official language implementation committee was constituted and about four meetings of this committee have been organized this year for proper implementation.

Hindi awareness fortnight was celebrated at CICR Nagpur from 19.09.2013 to 11.10.2013 with enthusiasm and various competitions had been conducted to encou-

rage the staff to exhibit their proficiency in Hindi language.

The inaugural function held on 20.09.2013 was chaired by Dr. K R Kranthi, Director & Chairman, IOLIC, CICR, Nagpur. Dr. V. J. Shivankar, former Director, NRCC, Nagpur as the Chief Guest. Dr. Sandhya Kranthi, HOD, Crop Protection, DR. P. K. Chakrabarty, HOD, Crop Improvement, Dr. D. Blaise, Crop Production, Sh. Deepak Maheshwari, Finance and Accounts Officer and Sh. Rajnikant, Working Coordinator and Hindi Officer, addressed the audience on the occasion.

Dr. K.R. Kranthi, Director, CICR, Dr. Shivankar, Chief Guest, Dr. P.K. Chakrabarty, Dr. Sandhya Kranthi, Sh. Deepak and Sh. Rajnikant.

During the fortnight (20.Sept. to 11.Oct. 2013), various competitions like Hindi essay and poetry writing, general awareness quiz, dictation, slogan writing and other related competitions were organized. A total of 12 competitions were conducted, in which 90 staff members have participated.

Closing ceremony was held on 11.10 2013 under the chairmanship of Dr. K. R. Kranthi, Director and Chairman, IOLIC. Dr. M. S. Kairon, former Director, CICR, was the Chief Guest of the occasion. Heads of various divisions, Dr. Sandhya Kranthi, Crop Protection, Dr. Suman Bala Singh, Crop improvement, Dr. D. Blaise, Crop Production, and Coordinator Sh. Deepak Maheshwari, working coordinator Sh. Rajnikant and Senior AO Sh. Sachin Agnihotri were present. Children of Mundle Public School marvelously emphasized the importance of Hindi and seasons in Agriculture through songs and dance. Quiz competition (conducted by Mrs. Mukta Chakrabarty and Dr. M.V. Venugopalan) was held as a part of Hindi Day Celebration. Winning participants were awarded with first, second, third and consolation prizes and certificates. Cash encouragement prize was distributed for commendable work in Hindi to, scientific, technical and administrative staff members.

Entire function was organized under the able leadership of Dr. K.R. Kranthi, Director, & Chairman of Institute Official Language Committee, and ably coordinated by

Inauguration of Closing Ceremony by Chief Guest Dr. M. S Kairon, Former Director CICR and Dr. K.R. Kranthi, Director,CICR

the members of the Hindi function committee, Sh. Sachin Agnihotri, Sh. Deepak Maheshwari, Sh. Rajnikant Chaturvedi, Dr. M. V. Venugopalan, Dr,G Balasubramani, Dr. Mukta Chakrabarti, Dr. V. Santhy, Dr. Vinita Gotmare, Sh. Gokulpure, Smt. Vandana Satish, Smt. Sunita Chauhan, Dr. U.V. Galkate and Sh. Gulbir Singh and Sh. R.Lokhande.

One day Hindi Workshop

One day workshop on Hindi was organized by the Hindi cell of the institute by following the guidelines of Hindi Nideshalaya, ICAR on 29 March 2014. Dr. Sandhya Kranthi, Director I/c & Head, Crop Protection Division inaugurated the function. Dr. Nandini Bhattacharya Sahu, Archaeological Survey of India, delivered a lecture on "The discovery of Rock Paintings at Gavilgarh Hills". In her talk, Dr. Nandini explained about ancient paintings and carvings on rock shelters and caves found in Gavilgarh hills near Betul, Madhya Pradesh. According to her, the paintings were similar to the paintings of Gond tribes and the paintings in Gavilgarh might belong to ancestors of the tribe. Mr. Rajanikant Chaturvedi, Convenor, Hindi Cell, proposed the vote of thanks.

Dr. Nandini B. Sahu , delivering a talk during Hindi workshop

10.10: Weather

Nagpur

Month	Temperature (^{0}C)		Relative Humidity (%)		Rainfall (mm)	No. of Rainy Days
	Max.	Min.	Max.	Min.		
June, 2013	34.13	25.03	75.23	57.4	426.00	12
July, 2013	30.24	24.24	93.1	78.8	513.00	16
August, 2013	29.42	23.60	91.8	96.0	261.50	15
September, 2013	33.48	23.28	87.5	59.4	93.00	5
October, 2013	31.31	22.13	91.6	72.5	99.00	5
November, 2013	30.56	15.83	64.4	40.1	0	0
December, 2012	29.01	11.86	75.0	63.83	0	0
January, 2014	28.58	14.77	81.3	62.0	4.0	1
February, 2014	30.85	15.10	81.1	70.3	26.2	5
Total					1422.7	

Coimbatore

Month	Temperature(^{0}C)		Relative Humidity (%)		Rainfall (mm)	No. of rainy days
	Max.	Min.	Max RH	Min RH		
Aug.2013	31.3	22.6	86.1	55.2	27.3	5
Sept. 2013	31.2	22.6	85.1	57.8	46.5	4
Oct. 2013	31.5	21.7	88.3	55.9	141.2	9
Nov. 2013	29.8	22.3	88.7	60.3	57.9	5
Dec. 2013	29.2	19.8	88.0	52.0	24.8	3
Jan.2014	30.1	20.0	84.0	42.0	0.0	0
Total					297.7	26

Sirsa

Month	Temperature (^{0}C)		Rainfall (mm)	No. of rainy days
	Max.	Mini.		
April 2013	39.2	14.5	12.4	2
May 2013	46.6	18.9	0.0	0
June 2013	45.2	22.2	29.6	3
July 2013	40.2	25.0	70.8	8
August 2013	38.0	25.0	168.4	11
September 2013	37.6	22.0	0.0	0
October 2013	36.4	15.2	-	-
November 2013	30.4	18.6	4.0	1
Total			285.8	25

10.11 : Cotton Scenario

Details of state-wise cotton area, production and productivity are given below:-

State-Wise Cotton Area, Production and Productivity

Zone/State	2012-2013 *			2013-2014 *		
	Area (Lakh ha)	Production (Lakh bales)	Productivity (kg/ha)	Area (Lakh ha)	Production (Lakh bales)	Productivity (kg/ha)
Punjab	4.80	21.00	744	5.05	21.00	707
Haryana	6.14	25.00	692	5.57	23.00	702
Rajasthan	4.50	17.00	642	3.03	14.00	785
North Zone	**15.44**	**63.00**	**694**	**13.65**	**58.00**	**722**
Gujarat	24.97	93.00	633	26.91	116.00	733
Maharashtra	41.46	79.00	324	38.72	81.00	356
Madhya Pradesh	6.08	19.00	531	6.21	19.00	520
Central Zone	**72.51**	**191.00**	**448**	**71.84**	**216.00**	**511**
Andhra Pradesh	24.00	84.00	595	21.42	72.00	571
Karnataka	4.85	15.00	526	5.78	18.00	529
Tamil Nadu	1.28	6.00	797	1.17	5.00	726
South Zone	**30.13**	**105.00**	**592**	**28.37**	**95.00**	**569**
Others	1.70	6.00	600	1.67	6.00	611
Grand Total	**119.78**	**365.00**	**518**	**115.53**	**375.00**	**552**

1 bale= 170 kg.

Source: Cotton Advisory Board, Ministry of Textile, Govt. of India. * - As estimated by CAB in its meeting held on 01.11.2013

Annual (April 1, 2012 to March 31, 2013) Performance Evaluation Report in respect of RFD 2012-2013 of RSCs i.e. Institutes **Annexure-I**

Name of the Division: Crop Science Division

Name of the Institution: Central Institute for Cotton Research, Nagpur

RFD Nodal Officer: Dr. M.V. Venugopalan

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target/ Criteria Value					Achievements	Performance		Reasons for shortfalls or excessive achievements, if applicable
						Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score	
						100%	90%	80%	70%	60%				
1. To conduct research for discovering and developing new genetic material for enhancing yield, stress tolerance, input use efficiency and fibre quality of cotton.	47	Augmentation, collection, characterization and utilization of cotton genetic resources	Germplasm accessions maintained	No.	4	1550	1500	1350	1150	1000	**1789**	**100**	**4**	-
			Germplasm accessions including perennials / land races added to cotton gene bank	No.	3	55	50	44	39	33	**50**	**90**	**2.7**	-
			Germplasm lines, varieties and parents of hybrids characterized through DUS	No.	2	111	100	89	77	66	**100**	**90**	**1.8**	-
			Genotypes characterized through DNA finger printing	No.	2	44	40	35	31	26	**44**	**100**	**2**	-
		Evaluation of cotton genetic resources/ improved varieties for suitable crop husbandry practices	Germplasm lines evaluated for adaptability and stress response	No.	5	620	600	590	570	550	**5020**	**100**	**5**	One time evaluation for water logging based on IRC Decisions
			Advance breeding material	No.	3	20	19	16	14	12	**25**	**100**	**3**	-

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target/ Criteria Value					Achievements	Performance		Reasons for shortfalls or excessive achievements, if applicable
						Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score	
						100%	90%	80%	70%	60%				
			evaluated for adaptability and stress response											
		Discovery of novel genes to combat stress and improve fibre quality / production	New genes discovered	No.	4	3	2	1	0	0	**3**	**100**	**4**	-
			New transgenic events developed and registered with RCGM	numbe	6	33	30	26	23	20	**33**	**100**	**6**	-
			Informative markers identified	No.	2	18	15	13	12	10	**15**	**90**	**1.8**	-
			Validation of association of markers available in public domain with desired traits	No.	2	3	2	1	0	0	**3**	**100**	**2**	-
		Discovery of novel genes to combat stress and improve fibre quality / production	New genes discovered	No.	4	3	2	1	0	0	**3**	**100**	**4**	-
			New transgenic events developed and registered with RCGM	No.	6	33	30	26	23	20	**33**	**100**	**6**	-
			Informative markers identified	No.	2	18	15	13	12	10	**15**	**90**	**1.8**	-
			Validation of association of markers available in public domain	No.	2	3	2	1	0	0	**3**	**100**	**2**	-

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target/ Criteria Value					Achievements	Performance		Reasons for shortfalls or excessive achievements, if applicable
						Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score	
						100%	90%	80%	70%	60%				
			with desired traits											
			Lines developed through marker assisted breeding	No.	1	2	1	0	0	0	**0**	**0**	**0**	-
		Development of improved varieties to suit diverse cotton production ecologies / situations	Advanced cultures developed	No.	2	65	60	55	50	45	**72**	**100**	**2**	-
			Promising cultures sponsored for AICCIP	No.	3	37	30	28	27	25	**37**	**100**	**3**	-
			Varieties released / proposals submitted	No.	2	2	1	0	0	0	**1**	**90**	**1.8**	-
		Development / identification of novel/promising germplasm / genetic stock / breeding lines	Germplasm / genetic stock / breeding lines registered with NBPGR	No.	2	3	2	1	0	0	**4**	**100**	**2**	-
		Production of nucleus / breeder 's seeds of cotton / formulations	Quantity of nucleus seed produced	kg	2	55	50	44	39	33	**85**	**100**	**2**	-
			Quantity of breeder seed produced	kg	2	550	525	515	505	500	**1610**	**100**	**2**	To revive the seed chain for HDPS trials
2. To develop efficient, eco-friendly crop husbandry tools for improved cotton genotypes for	41	Crop husbandry tools for improved cotton varieties / hybrids	Production technologies developed	No.	5	5	4	3	2	1	**4**	**90**	**4.5**	-
			Implements designed / fabricated/ tested and validated	No.	4	4	3	2	1	0	**3**	**90**	**3.6**	-

Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target/ Criteria Value					Achievements	Performance		Reasons for shortfalls or excessive achievements, if applicable
						Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score	
						100%	90%	80%	70%	60%				
diverse agro-ecologies			Simulation/ stochastic / prediction / forecasting models	No.	3	3	2	1	0	0	**2**	**90**	**2.7**	-
		Tools of suppression of stresses due to biotic and abiotic factors	Districts monitored for insect pest / disease infestation	No.	5	43	41	39	37	35	**41**	**90**	**4.5**	-
			Populations monitored for insect resistance to insecticides and Bt toxins	No.	6	42	40	38	36	34	**42**	**100**	**6**	-
			New crop protection technologies developed	No.	6	6	5	4	3	2	**6**	**100**	**6**	-
			Techniques to combat abiotic stresses, drought,water logging, salinity/ alkalinity/leaf reddening / high temperature etc.	No.	4	9	8	7	5	4	**8**	**90**	**3.6**	-
		Products / processes disseminated, commercialized and patents filed	Technologies disseminated	No.	4	6	5	3	2	1	**5**	**90**	**3.6**	-
			Products / processes commercialized	No.	2	3	2	1	0	0	**2**	**90**	**1.8**	-
			Patents filed	No.	2	2	1	0	0	0	**1**	**90**	**1.8**	-

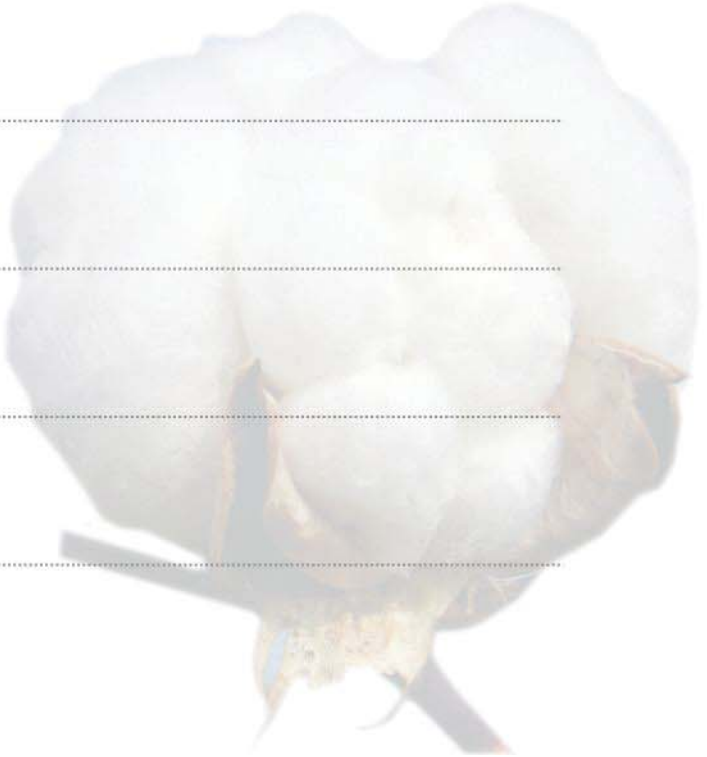
Objectives	Weight (%)	Actions	Success Indicators	Unit	Weight (%)	Target/ Criteria Value					Achievements	Performance		Reasons for shortfalls or excessive achievements, if applicable
						Excellent	Very Good	Good	Fair	Poor		Raw Score	Weighted Score	
						100%	90%	80%	70%	60%				
*Efficient functioning of the RFD System	3	Timely submission of RFD for 2012-13	On-time submission	date	2	Mar. 23 2012	Mar. 26 2012	Mar. 27 2012	Mar. 28 2012	Mar.29 2012	**May 23,2012**	**0**	**0**	-
		Timely submission of Results	On- time submission	date	1	May-01 2013	May-02 2013	May-03 2013	May-06 2013	May-07 2013	**May 01,2013**	**100**	**1**	-
Administrative Reforms	5	Implement ISO 9001	Prepare ISO 9001 action plan	date	1	June 4 2012	June 5 2012	June 6 2012	June 7 2012	June 8 2012	**June 1, 2012**	**100**	**1**	-
			Implementation of ISO 9001 action plan	date	2	Mar 25 2013	Mar 26 2013	Mar 27 2013	Mar 28 2013	Mar 29 2013	**Nil**	**0**	**0**	-
		Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	2	100	95	90	85	80	**95**	**90**	**1.8**	-
Improving Internal Efficiency /responsiveness service delivery of Ministry /Department	4	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2	100	95	90	85	80	**100**	**100**	**2**	-
			Independent Audit of implementation of public grievance redressal system	%	2	100	95	90	85	80	**100**	**100**	**2**	-
TOTAL WEIGHT=					**100%**									

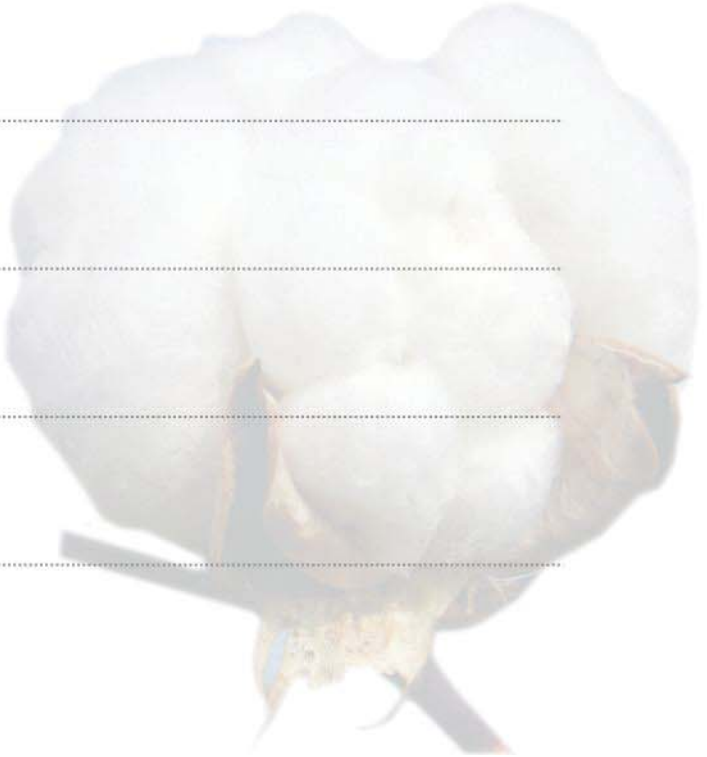
Total Composite Score: 91.0

Rating : Very Good

Procedure for computing the Weighted and Composite Score

1. **Weighted Score of a Success Indicator = Weight of the corresponding Success Indicator x Raw Score / 100**
2. **Total Composite Score = Sum of Weighted Scores of all the Success Indicator**





GLIMPSES OF KRISHI VASANT 9-13 FEB. 2014

Fodder Demonstration Block

Oilseeds Demonstration Block

Vegetables Demonstration Block

Pulses Demonstration Block

Farmers from various states gaining knowledge from the high tech demonstrations & Exhibitions

भाकृअनुप
ICAR

केन्द्रीय कपास अनुसंधान संस्थान, नागपुर

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